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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/893,559	06/29/2001	Jong Sang Baek	8733.448.00	5057

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EXAMINER	
BECK, ALEXANDER S	

ART UNIT	PAPER NUMBER
2629	

DATE MAILED: 04/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/893,559	BAEK ET AL.	
	Examiner	Art Unit	
	Alexander S. Beck	2675	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *17 January 2006*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *12-35* is/are pending in the application.

4a) Of the above claim(s) *18-35* is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *12-17* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *07 January 2005* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☒ All b)☐ Some * c)☐ None of:

1.☒ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☑ Other: ENGLISH TRANSLATION OF JP-09270936

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Claims 12-17 in the reply filed on 1/17/06 is acknowledged.

Claims 18-35 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to nonelected inventions, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 1/17/06, and the restriction is made Final.

Information Disclosure Statement

2. The information disclosure statements (IDS) filed on 1/7/05, 1/11/05 and 4/29/05 have been acknowledged and considered by the Examiner. Initialed copies of the PTO-1449 are included in this correspondence.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 12-17 are rejected under 35 U.S.C. 102(b) as being anticipated by *Shimizu* (JP-09270936, hereinafter SHIMIZU).

As to independent **Claim 12**, SHIMIZU teaches/suggests in **figure 1** a method of driving a display (SHIMIZU: abstract) comprising:

receiving an input signal having a first period corresponding to a number of lines in the display (Horizontal synchronizing separator circuit section **1** separates a horizontal synchronizing signal having a hsync period.);

determining whether the first period is less than a first reference period (NTSC oscillator **3** outputs a signal having a NTSC reference period of $\frac{1}{15.734KHz}$.); and

outputting a signal of a first state if the first period is less than the first reference period (Synchronization detection section **2** compares the hsync period with the NTSC reference period. For a "second state" scenario, synchronization detection section **2** outputs a specific value for output signal S_o only when the hsync period equals the NTSC reference period. For an alternative "first state" scenario, synchronization detection section **2** outputs a different value for output signal S_o when the hsync period is not equal to the NTSC reference period, requiring the state of the hsync period to be either less than or greater than the NTSC reference period, thereby reading on the broad claim language).

As to independent **Claim 14**, SHIMIZU teaches/suggests in **figure 1** a method of driving a display (SHIMIZU: abstract) comprising:

receiving an input signal having a first period corresponding to a number of lines in the display (Horizontal synchronizing separator circuit section **1** separates a horizontal synchronizing signal having a hsync period.);

determining whether the first period is greater than a first reference period (NTSC oscillator **3** outputs a signal having a NTSC reference period of $\frac{1}{15.734KHz}$.); and

outputting a signal of a first state if the first period is greater than the first reference period (Synchronization detection section **2** compares the hsync period with the NTSC reference period. For a "second state" scenario, synchronization detection section **2** outputs a specific value for output signal S_O only when the hsync period equals the NTSC reference period. For an alternative "first state" scenario, synchronization detection section **2** outputs a different value for output signal S_O when the hsync period is not equal to the NTSC reference period, requiring the state of the hsync period to be either less than or greater than the NTSC reference period, thereby reading on the broad claim language).

As to independent **Claim 16**, SHIMIZU teaches/suggests in **figure 1** a method of driving a display (SHIMIZU: abstract) comprising:

receiving an input signal having a first period corresponding to a number of lines in the display (Horizontal synchronizing separator circuit section **1** separates a horizontal synchronizing signal having a hsync period.);

determining whether the first period is less than a first reference period and greater than a second reference period (NTSC oscillator **3** outputs a signal having a NTSC reference period of $\frac{1}{15.734KHz}$. PAL/SECAM oscillator **4** outputs a signal having a PAL/SECAM reference period of $\frac{1}{15.625KHz}$, greater than that of the NTSC reference period.); and

outputting a signal of a first state if the first period is less than the first reference period and greater than the second reference period (Synchronization detection section **2** compares the hsync period with the NTSC reference period. For a "third state" scenario, the state of output signal S_O becomes high (H) when the hsync period equals the NTSC reference period. For an alternative "second state" scenario, the state of output signal S_O becomes high (H) when the

hsync period is equal to the PAL/SECAM reference period. For an alternative "first state" scenario, the state of output signal S_o becomes low (L) when the hsync period is asynchronous with both the NTSC and PAL/SECAM reference periods. In an asynchronous condition, the hsync period must be: less than the NTSC reference period; greater than the PAL/SECAM reference period; or greater than the NTSC reference period and less than the PAL/SECAM reference period, thereby reading on the broad claim language.)

As to **Claims 13,15 and 17**, SHIMIZU teaches/suggests in **figure 1** wherein the receiving, determining and outputting steps are repeated and determining if the first state is output a second time (SHIMIZU: abstract, paragraph [0012] of English translation).

Response to Arguments

5. Applicant's arguments filed 1/7/05 have been fully considered but they are not persuasive.

Applicant argues the 35 U.S.C. 102(b) rejection of Claims 1-17 in view of SHIMIZU should be withdrawn in that the applied reference determines equality and inequality, as opposed to less than.

Examiner respectfully disagrees. The claim recites determining if less than a reference period. SHIMIZU discloses determining if equal or unequal to a reference period. By definition, unequal is being less than or greater than a reference value, which is inclusive of Applicant's "less than" limitation. There is no limitation reciting only a determination of less than being made, the applied reference of SHIMIZU thereby encompassing all steps of the Applicant's method.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Alexander S. Beck** whose telephone number is **(571) 272-7765**. The examiner can normally be reached on M-F, 8AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Sumati Lefkowitz** can be reached on **(571) 272-3638**. The fax phone number for the organization where this application or proceeding is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

asb
3/15/06

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